NDC-402
Digital Video Camera
Instruction Manual

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Function Description

Welcome to purchase and use this digital video camera. Before use, please read this user manual carefully.

With this digital video camera, you can take video clips and still photo. With the playback function, you can playback the taken video with this digital video camera; in addition, you can download the video from the digital video camera into your PC. When prepared, this user manual refers to the latest information. The screens and illustrations etc in this user manual are to particularly and visually detail the operation of the digital video camera. Due to technology development and different production batches, the digital video camera herein may be different from that you buy and use.

Notice for use

General:

1. Never open the housing of the digital video camera; otherwise, some parts may cause electric shock.
2. Damp, pressure, collision and overheat may damage this digital video camera.

Memory and storage:

1. SD/MMC/SDHC can be used (but not included in the packing list and maximal capacity 16GB).
2. When buying SD/MMC/SDHC card, be sure to take the digital video camera with you so as to ensure compatibility.
3. When SD/MMC/SDHC card is inserted, the memory of the digital video camera will not function.
4. SD card has a write-protect switch, which can be used to prevent wrong deletion of data. When this switch is pushed to the bottom and locked, the data in the card will be protected.

However, when the card is in write-protect state, it cannot be used for shooting or deletion etc.
5. These memory cards cannot be used for permanent storage of data. You must copy the documents in the digital video camera in the proper storage position.
6. When storing documents into the memory or the memory card, make sure that the size of the documents does not exceed the capacity of the memory.

Maintenance and care:

1. In use, always wear the wrist band so as to prevent slip.
2. Use proper protection sheath to avoid scratching the lens and screen.
3. To clean the lens, firstly blow away the dust on its surface, then use proper cloth or tissue for optical devices to clean the lens. If necessary, use lens cleanser. Never use organic cleanser to clean the digital video camera.
4. Never touch the lens with fingers.
5. When left idle for long, keep the digital video camera with the battery taken out in dry and dark place.

Other notices:

1. When switching video output between LCD display and video devices, be sure to exit from the play or record state.
2. This digital video camera is suitable the environment between 0℃- 40℃ (32℉-104℉). Never keep the digital video camera in the place at extremely high temperature, such as in the car parking under the burning sun, or with much damp. In order to prevent the digital video camera from condensation, when moving from a cold place to a warm place, be sure to keep it in sealed plastic bag, and open the bag and take it out when the digital video camera reaches the indoor temperature.
3. TV programs, movies, music, images and other resources may be protected by copyright; therefore, without prior permission, the shooting/use of these resources may violate copyright

laws and regulations related. Please note that the resources under the protection of copyright can be used within the permission of related laws and regulations.

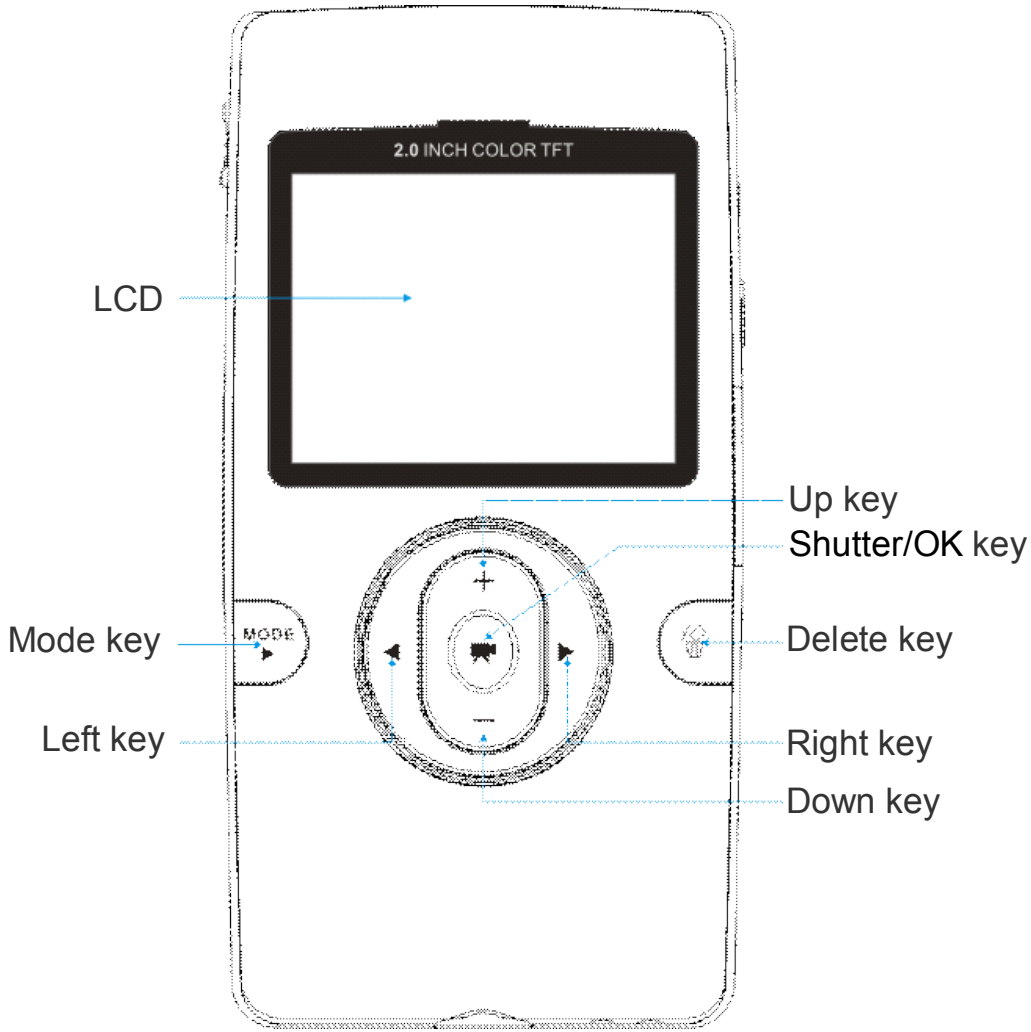
System requirements

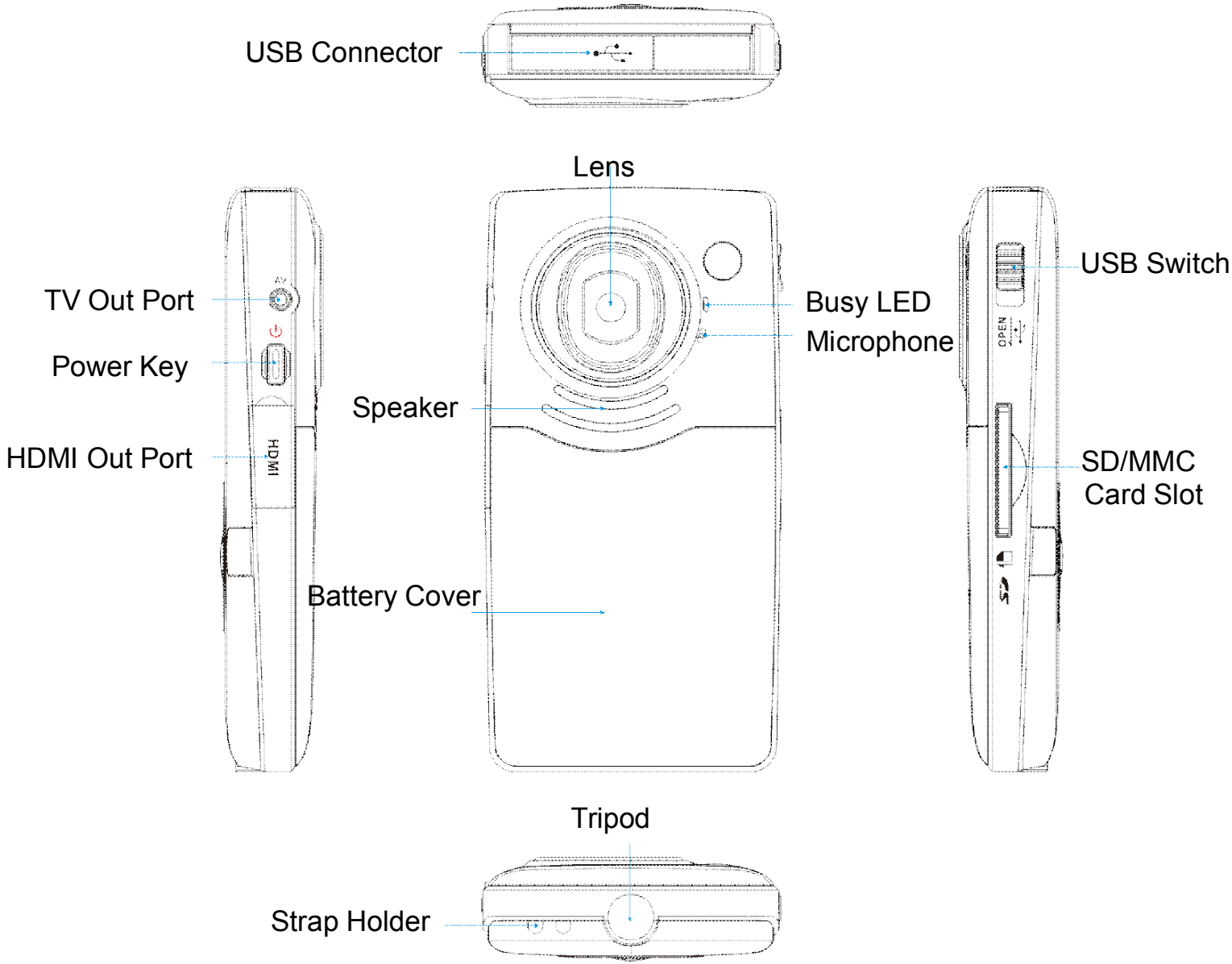
When operating and using this digital video camera, be sure to meet the requirements on the basic system for computer. It is strongly recommended to use the best computer units to operate the camera so as to bring its functions into full play. Below are the requirements on the basic system:

Operation System	Microsoft Windows 2000,XP, vista, Windows7
CPU	Above Intel PIII667 or CPU of equal performance
Memory	Above 128 MB
Sound card and display card	DirectX8 or above.
CD-ROM	4× speed or above
Hard Disk	1 GB space above useable
Other	One standard USB 1.1 or USB 2.0 port

Start to use

1. Appearance and Buttons

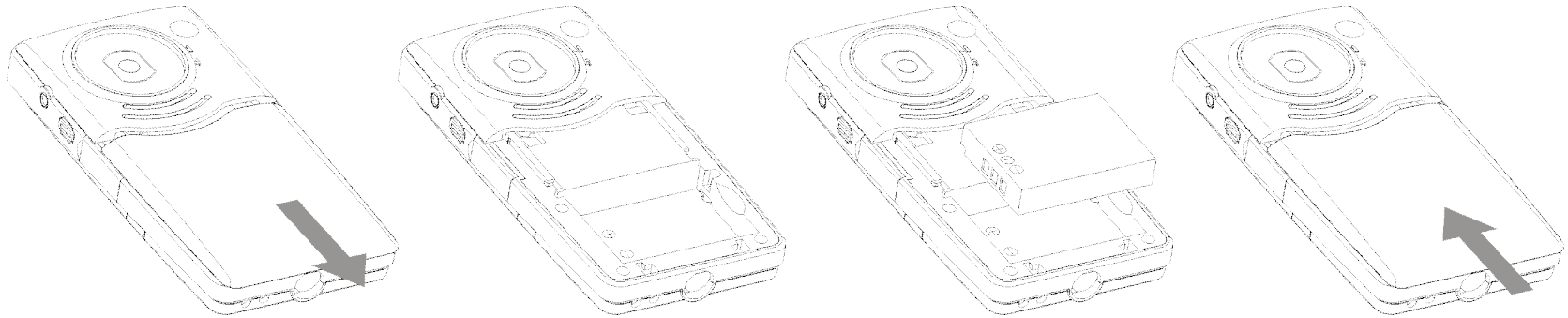



USB Connector
Lens
TV Out Port
Power Key
HDMI Out Port
Speaker
Busy LED
Microphone
USB Switch
SD/MMC
Card Slot
Battery Cover
Tripod
Strap Holder
HDMI
OPEN

2. Basic operation

2.1 Install battery

Press / slide down the Battery Cover and insert lithium battery. Align with correct polarity of battery terminals. Close the Battery Cover.



2.2 Charge Battery

1. Power off the camera.

2. Connect the camera to the computer USB port or the power adapter with USB cable to charge the battery.

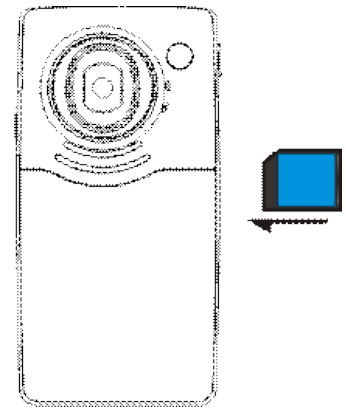
3. During charging, Busy light is on and will be off when the battery is fully charged.

2.3 Use SD/MMC/SDHC card

Insert the SD Memory card into the SD/MCC/SDHC Card Slot. Push it down until the card stays latched. Do not force – check card's position according to the position mark on the

camera.

Push and release inserted card if you wish to remove or replace the card.



Turn your camcorder OFF before inserting / removing the SD Card.

- Note that the SD Card has a tiny LOCK switch on the side. Set the switch to un-LOCK position to be able to store recorded videos, still pictures on inserted SD Memory Card.

2.4 Power on/off

In power-off state, press and hold the power key to power on the camera.

In power-on state, press the power key to power off the camera.

In power-on state, let the camera idle for 1 minute （default） to power off the camera automatically.

In power-on state, when battery level is very low, the camera will turn off after several seconds. You must replace the batteries.

2.5 Setup menu

In power-on state, press DELETE key to enter the menu, There will be some options to setup or select for you：Language、Format、TV Mode、Frequency、Date/Time、Auto Power

Off、Beep Sound、Default Setting, et cetera.

2.6 Change mode

After power on, it will enter video record mode, press MODE key to change mode between video record, Still photo record, Playback;

2.7 Video record

In Video record mode, press shutter key to start video recording, While recording, press the shutter key again to stop recording.

At preview mode, press Left or Right key can change the video size between HD(1280x720), VGA(640x480); Press up key or down key can zoom in or zoom out the image.

2.8 Still photo record

In Still photo record mode, Press Shutter key can snap one photo, At preview mode, press Left or Right key can change the video size between 5M(2592X1944), 3M(2048x1536), 1.3M(1280x960); Press up key or down key can zoom in or zoom out the image.

Note:

- While the memory is full or the SD card was locked, when you press the Shutter key, the camera will can not recording.
- Before insert or remove the card, please turn off the camera first.

2.9 Playback videos or photos

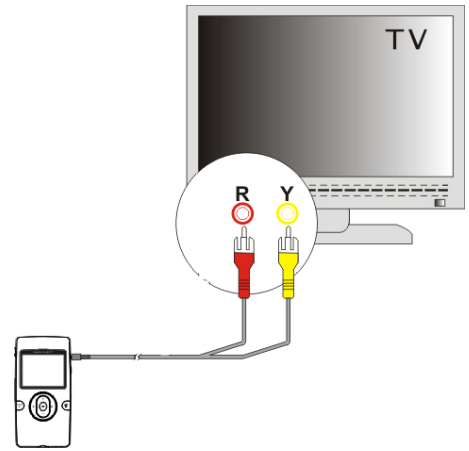
Press mode key continuously to change to playback mode, press ◄ key or ► key to select another file.

Well, you select one video file, Press OK key to begin play video, during playing the video, press and hold ► or ◄ key to fast forward or backwards playing video, press OK key pause/resume playing, press the MODE key to stop play video.

Well, you select one video file,Press up key or down key can zoom in or zoom out the image; at zoom in mode, press OK key can enter pan mode, at this time you can press direction key to move the photo to view in LCD.

2.10 TV output

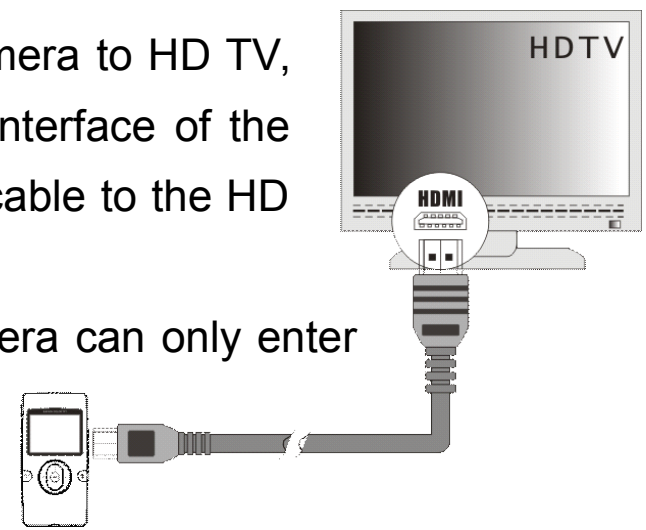
After the camera is powered on, insert the terminal of the TV cable into the TV output port of the camera, the yellow port of the other terminal should be connected to VIDEO IN port of TV， red(or white) port of the other terminal should be connected to AUDIO IN port of TV.



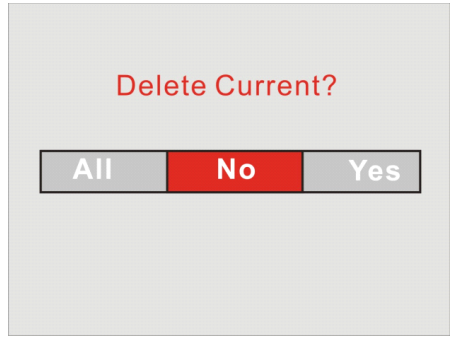
2.11 HDMI output

If you want to output the image and sound in video camera to HD TV, please insert the HDMI cable (Optional) to the HDMI interface of the video camera, connect the other terminal of the HDMI cable to the HD TV.

Note: During the period of HDMI output, the video camera can only enter playback mode.



3 Delete files



When in preview or playback mode. Press the Delete key will enter Delete menu mode, use direction key of Right or Left to select “Delete current” or “Delete all” .

Select “Delete current” then press OK key will delete current image; if select “Delete all” the press OK key will delete all images, if press Delete key will exit deletion.

4 Connect to PC

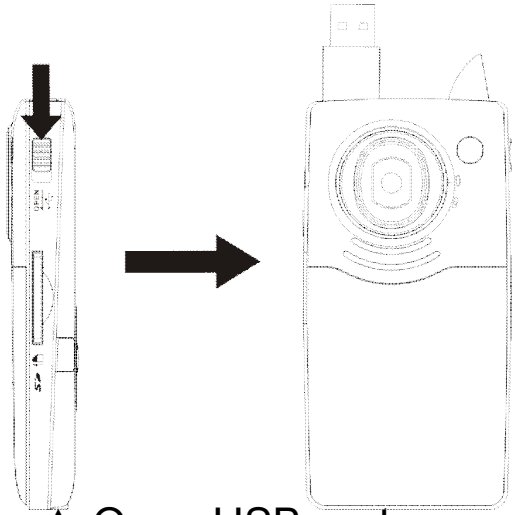
1. Slide the USB Switch UP to extend the USB connector. And turn the camcorder ON.
2. Insert camcorder USB connector into computer’s USB port, or use supplied USB extension cable to make connection.

5 Download files from camera to PC

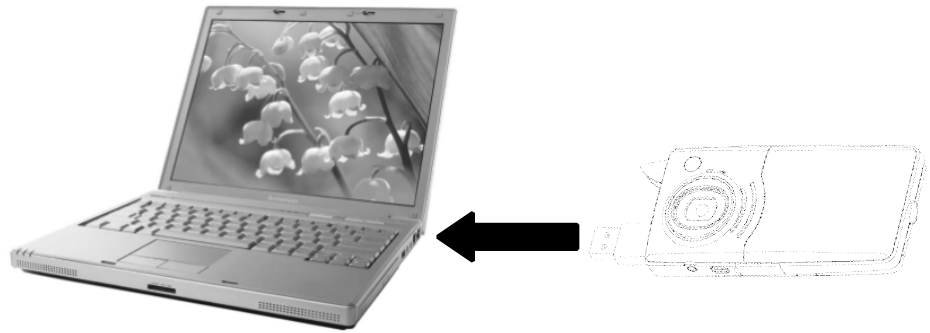
1. After connecting to computer, go to "My Computer” and open the "Removable Disk." The videos will be saved in the \DCIM\ 100MEDIA folder in the removable disk. Choose the desired video in the 100MEDIA folder and copy (drag with mouse) it into the target folder in the HD of

the computer.

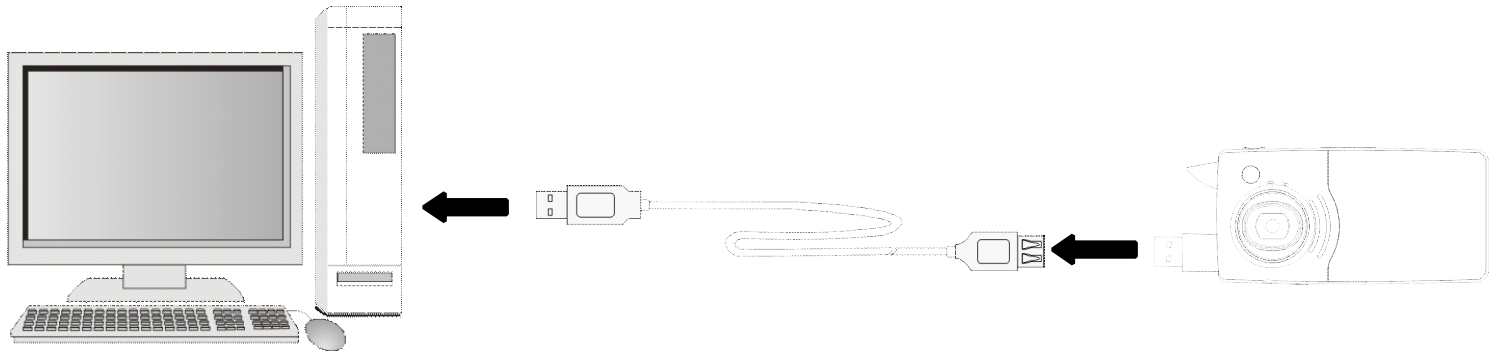
2. You can use ArcSoft MediaImpression to edit videos.
3. ArcSoft MediaImpression can be installed from CD attached.



▲ Open USB port



▲Connect camera to PC (1)



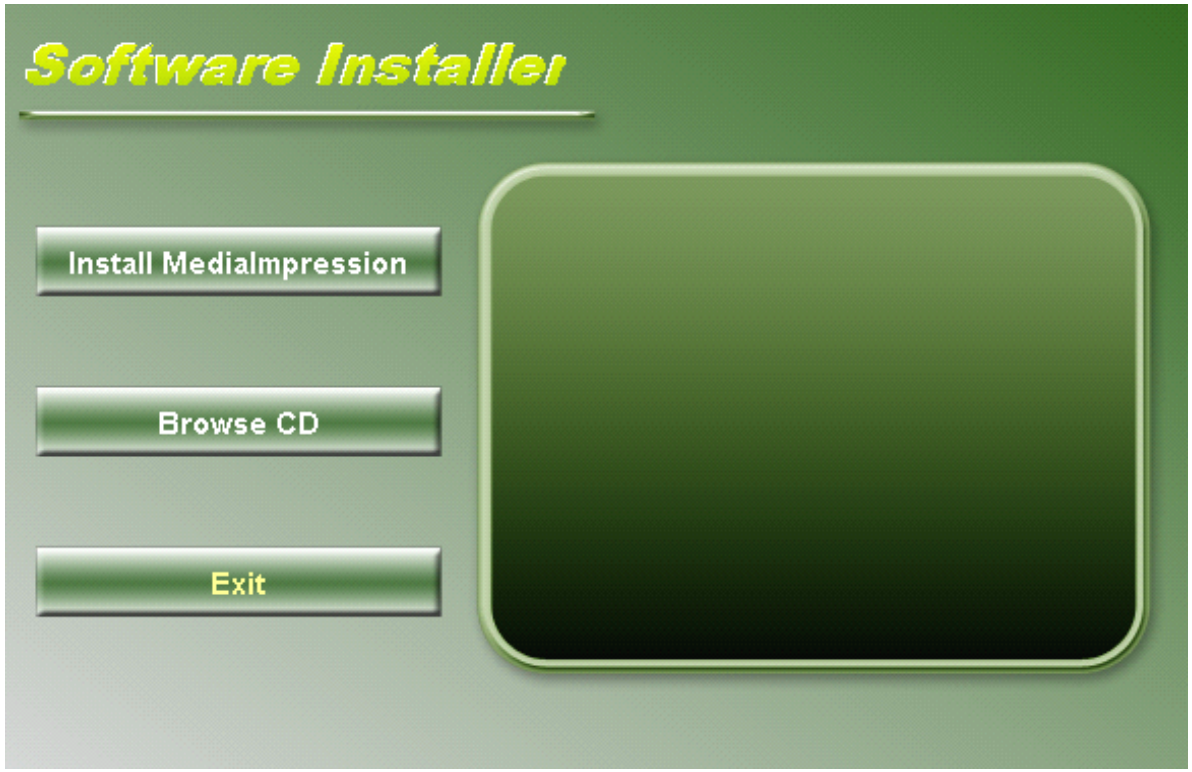
▲ Connect camera to PC (2)

Application of Attached ArcSoft MediaImpression

There are two software in CD provided for image processing: Xvid codec, MediaImpression

Introduction interface for software installation

Put the CD attached into the CD-ROM of the computer, then the following menu will occur:

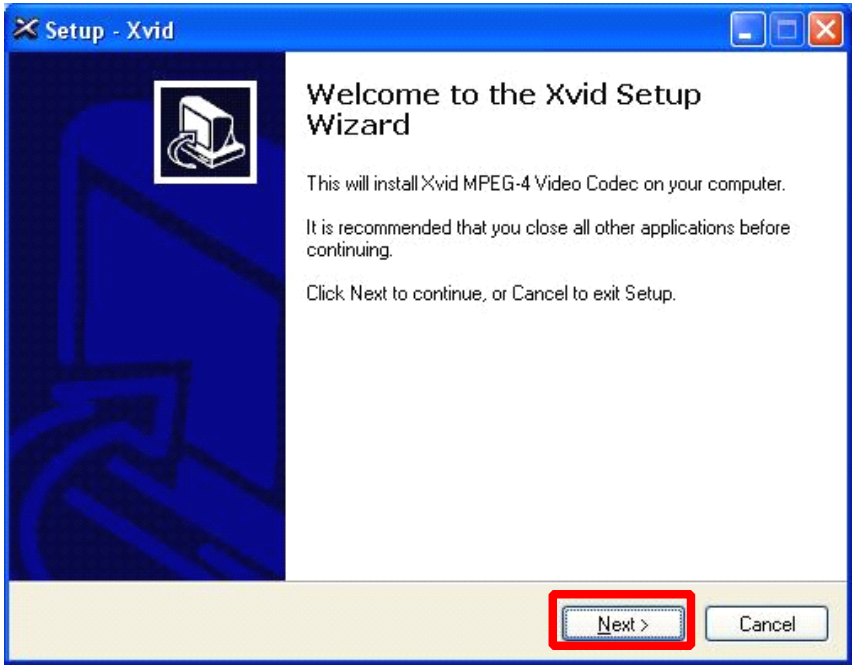


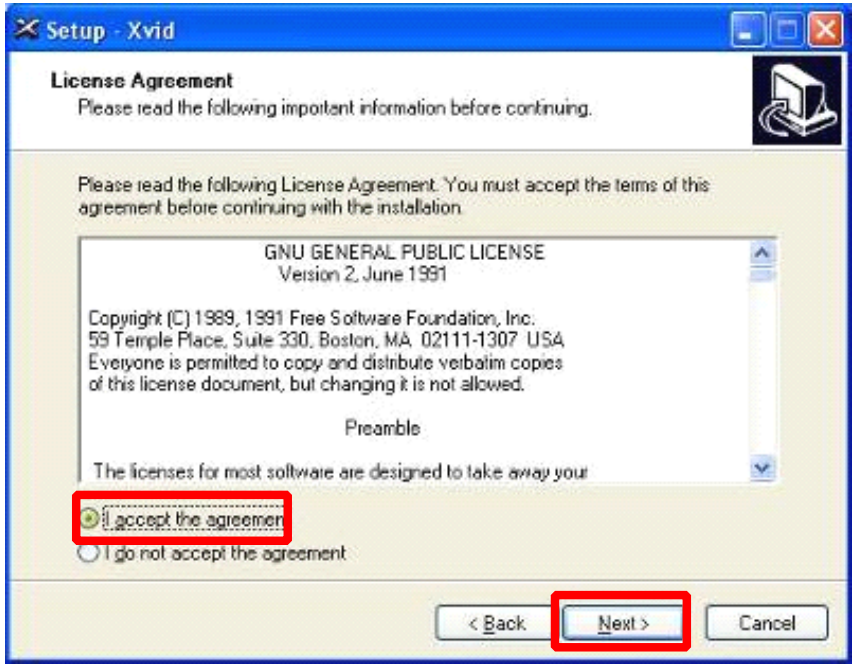
- If the CD driver does not automatically carry out or close such function, please click **autorun.exe** program under the root directory of the CD.

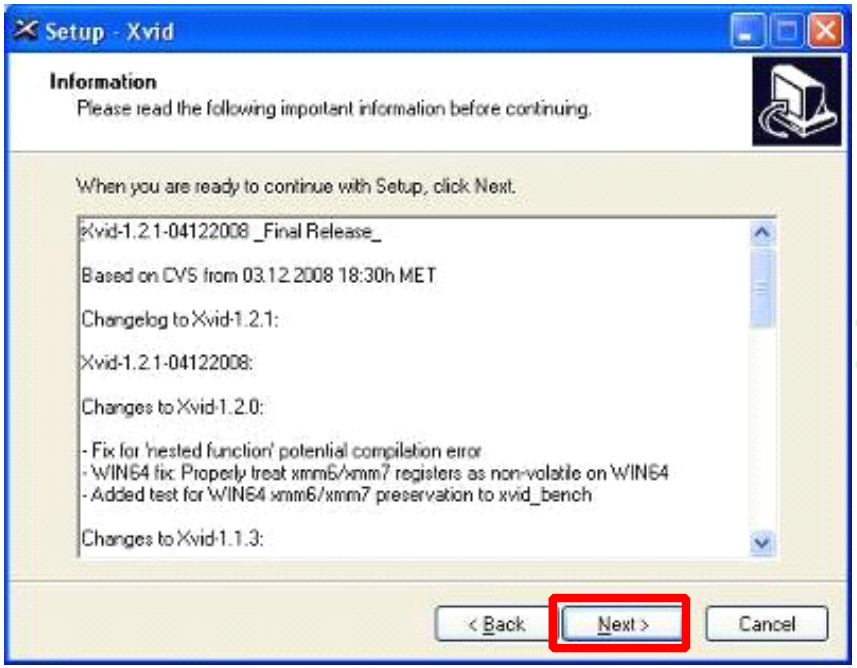
Xvid codec Installation

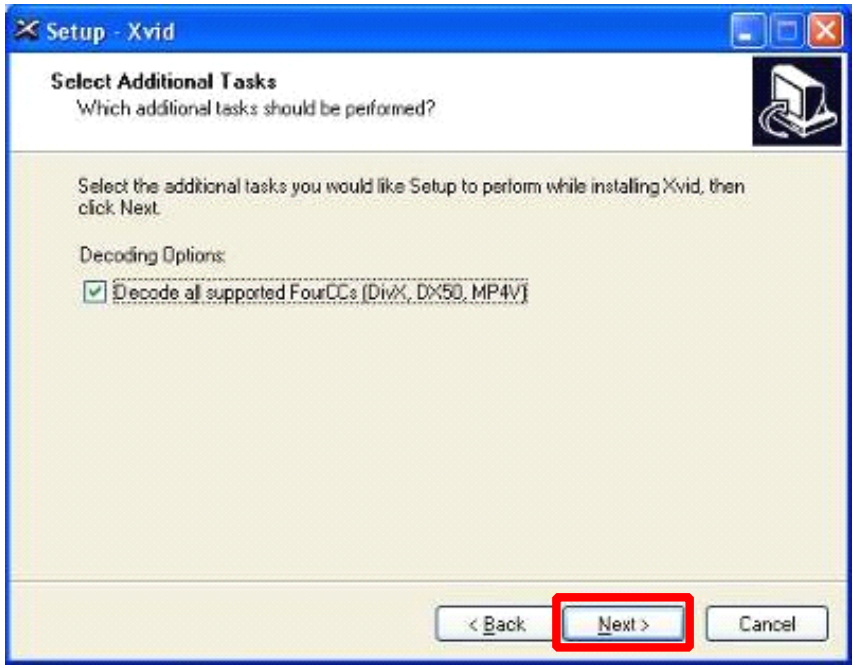
Instal Xvid codec:

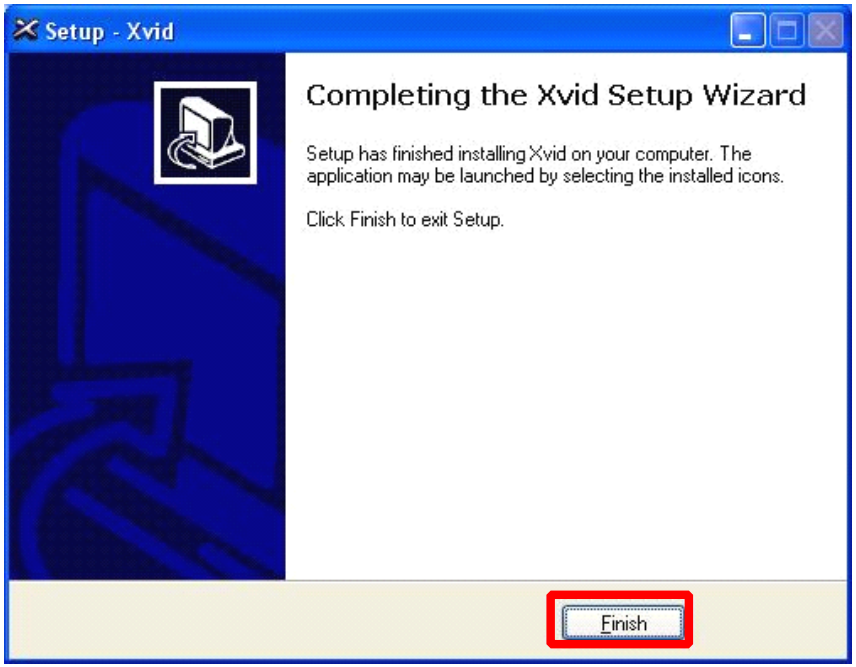
Click " Install Xvid codec " button and complete the installation as per the tips.


Setup - Xvid
Welcome to the Xvid Setup Wizard
This will install Xvid MPEG-4 Video Codec on your computer.
It is recommended that you close all other applications before continuing.
Click Next to continue, or Cancel to exit Setup.
Next >
Cancel


Setup - Xvid
License Agreement
Please read the following important information before continuing.
Please read the following License Agreement. You must accept the terms of this agreement before continuing with the installation.
GNU GENERAL PUBLIC LICENSE
Version 2, June 1991
Copyright (C) 1989, 1991 Free Software Foundation, Inc.
59 Temple Place, Suite 330, Boston, MA 02111-1307 USA
Everyone is permitted to copy and distribute verbatim copies
of this license document, but changing it is not allowed.
Preamble
The licenses for most software are designed to take away your
I accept the agreement
I do not accept the agreement
< Back
Next >
Cancel


Setup - Xvid
Information
Please read the following important information before continuing.
When you are ready to continue with Setup, click Next.
Xvid-1.2.1-04122008 _Final Release_
Based on CVS from 03.12.2008 18:30h MET
Changelog to Xvid-1.2.1:
Xvid-1.2.1-04122008:
Changes to Xvid-1.2.0:
- Fix for 'nested function' potential compilation error
- WIN64 fix: Properly treat xmm6/xmm7 registers as non-volatile on WIN64
- Added test for WIN64 xmm6/xmm7 preservation to xvid_bench
Changes to Xvid-1.1.3:
< Back
Next >
Cancel


Setup - Xvid
Select Additional Tasks
Which additional tasks should be performed?
Select the additional tasks you would like Setup to perform while installing Xvid, then click Next.
Decoding Options:
Decode all supported FourCCs (DivX, DX50, MP4V)
< Back
Next >
Cancel


Setup - Xvid
Completing the Xvid Setup Wizard
Setup has finished installing Xvid on your computer. The application may be launched by selecting the installed icons.
Click Finish to exit Setup.
Finish

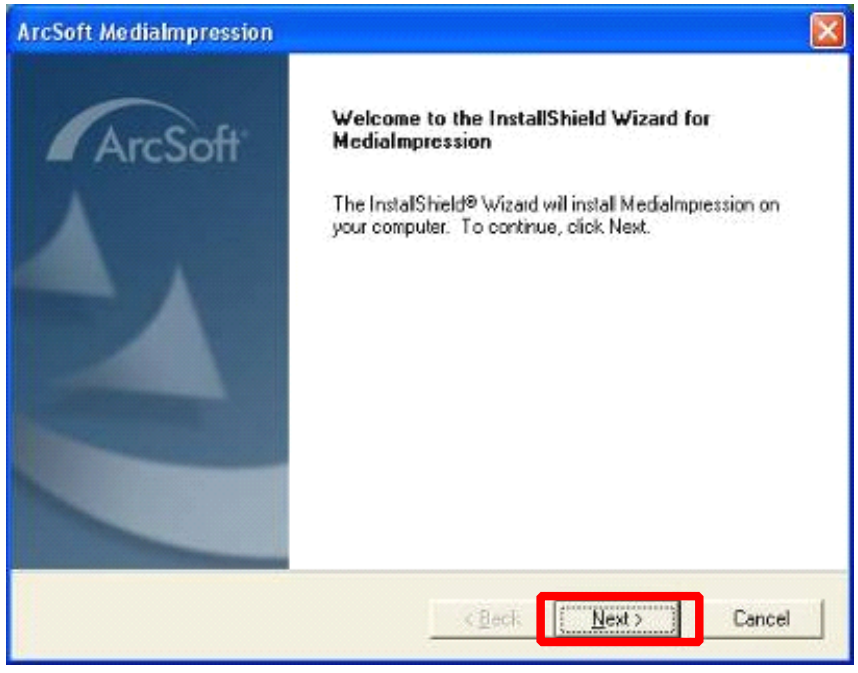
Notice:
This software can be find in attached CD,
If you want to play recorded video on your computer, please install Xvid codec, if your computer have install Xvide codec, this operation may do not it.

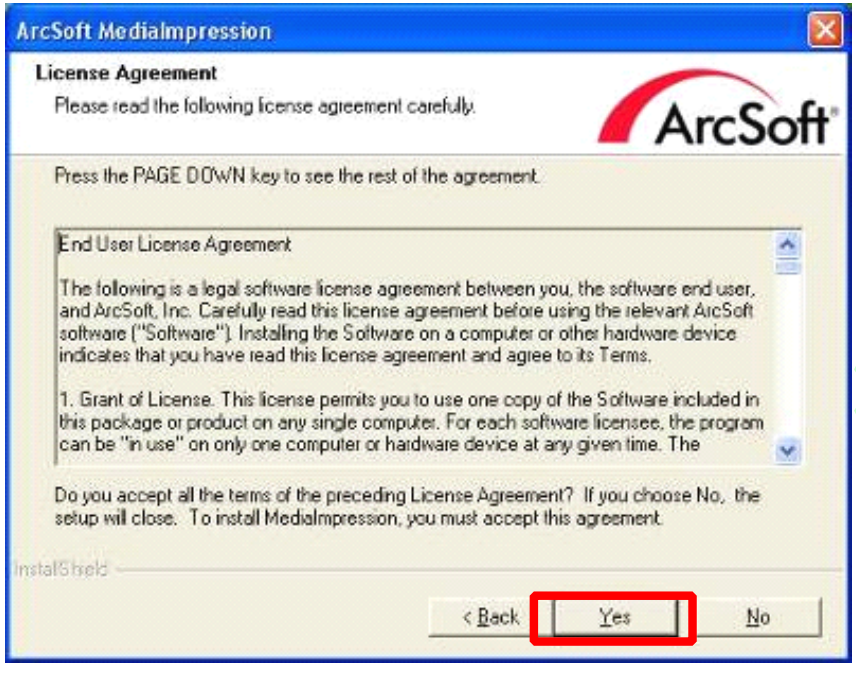
MediaImpression Installation and Use:

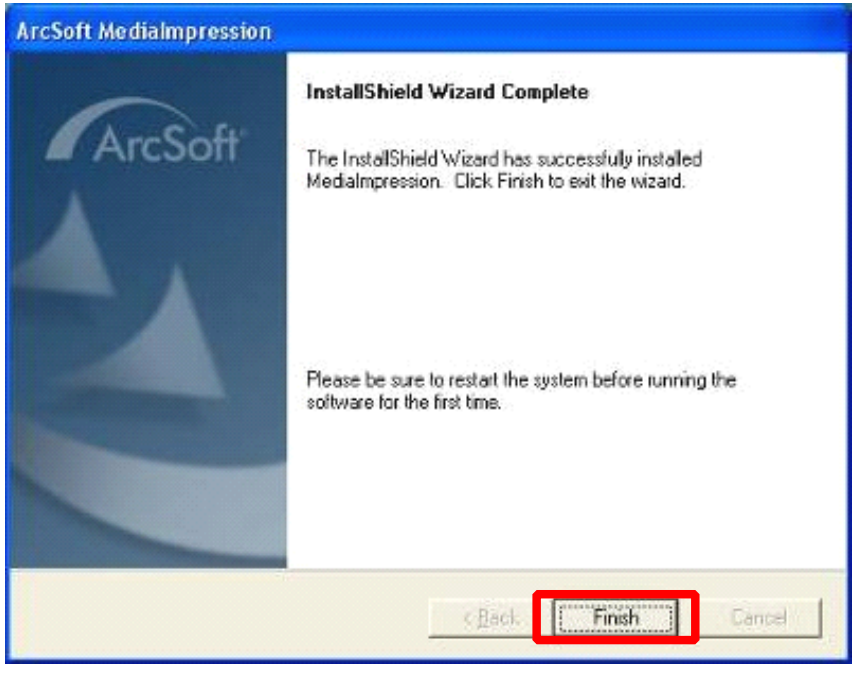
Install Mediainpression:

Click “Install MediaImpression” button and complete the installation as per the tips.

Choose Setup Language
Select the language for this installation from the choices below.
English
OK
Cancel


ArcSoft MediaImpression
ArcSoft
Welcome to the InstallShield Wizard for MediaImpression
The InstallShield® Wizard will install MediaImpression on your computer. To continue, click Next.
< Back
Next >
Cancel


ArcSoft MediaImpression
License Agreement
Please read the following license agreement carefully.
ArcSoft
Press the PAGE DOWN key to see the rest of the agreement.
End User License Agreement
The following is a legal software license agreement between you, the software end user, and ArcSoft, Inc. Carefully read this license agreement before using the relevant ArcSoft software ("Software"). Installing the Software on a computer or other hardware device indicates that you have read this license agreement and agree to its Terms.
1. Grant of License. This license permits you to use one copy of the Software included in this package or product on any single computer. For each software licensee, the program can be "in use" on only one computer or hardware device at any given time. The
Do you accept all the terms of the preceding License Agreement? If you choose No, the setup will close. To install MediaImpression, you must accept this agreement.
InstallShield
< Back
Yes
No


ArcSoft MediaImpression
ArcSoft
InstallShield Wizard Complete
The InstallShield Wizard has successfully installed MediaImpression. Click Finish to exit the wizard.
Please be sure to restart the system before running the software for the first time.
< Back
Finish
Cancel

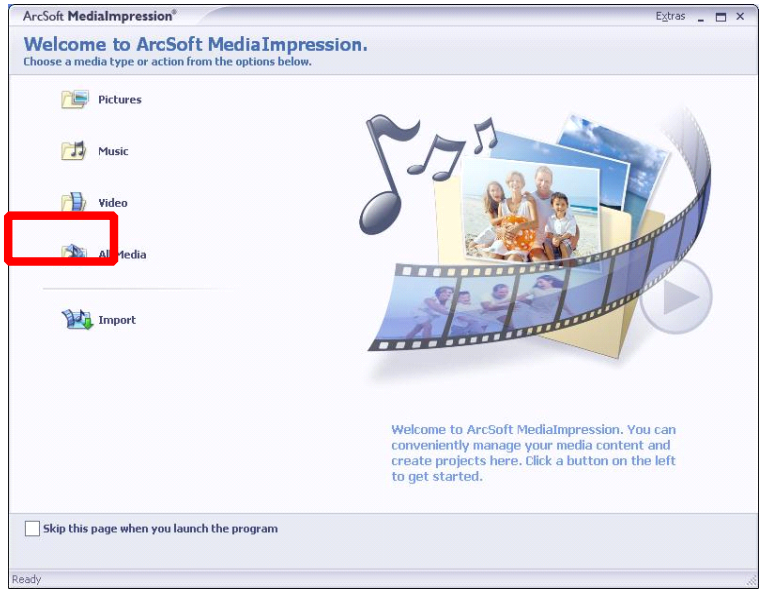
After installation, please restart the computer.
Run MediaImpression :

Double click the

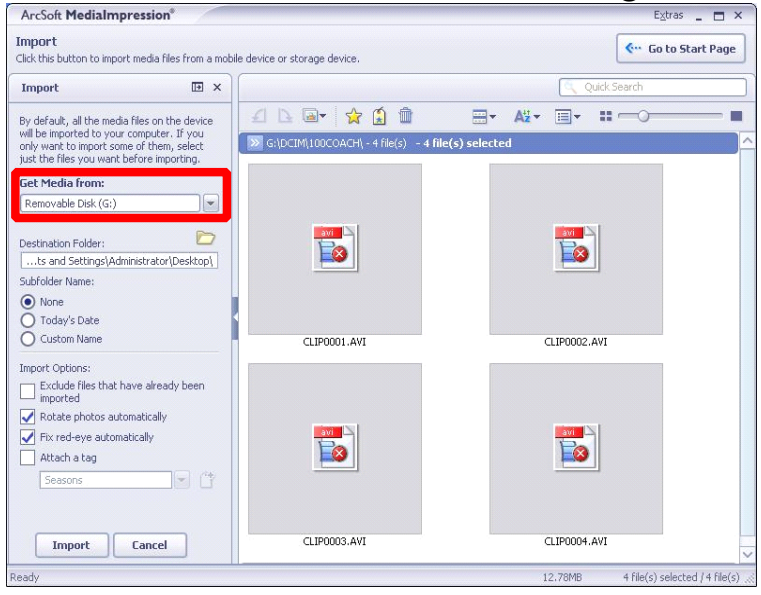
icon on the desktop or follow “Start → Programs” to open:

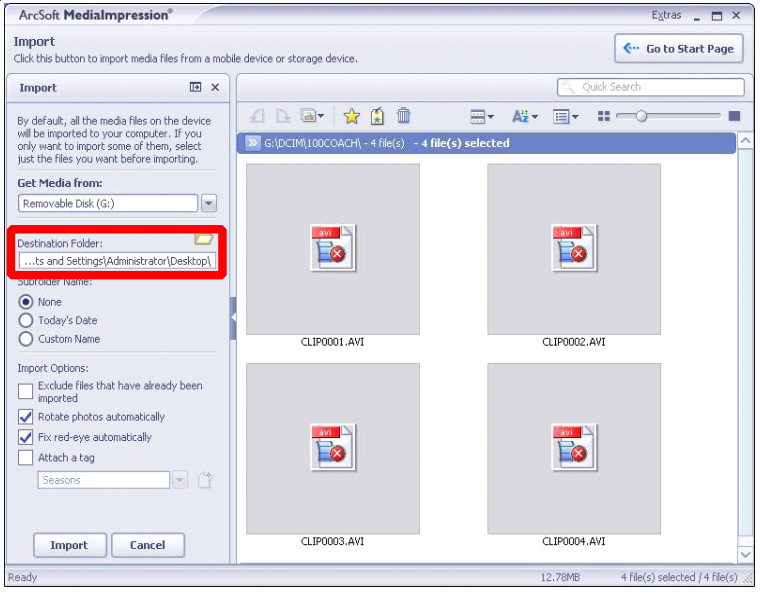
MediaImpression

After starting MediaImpression**,** click the “Import” to import the media.

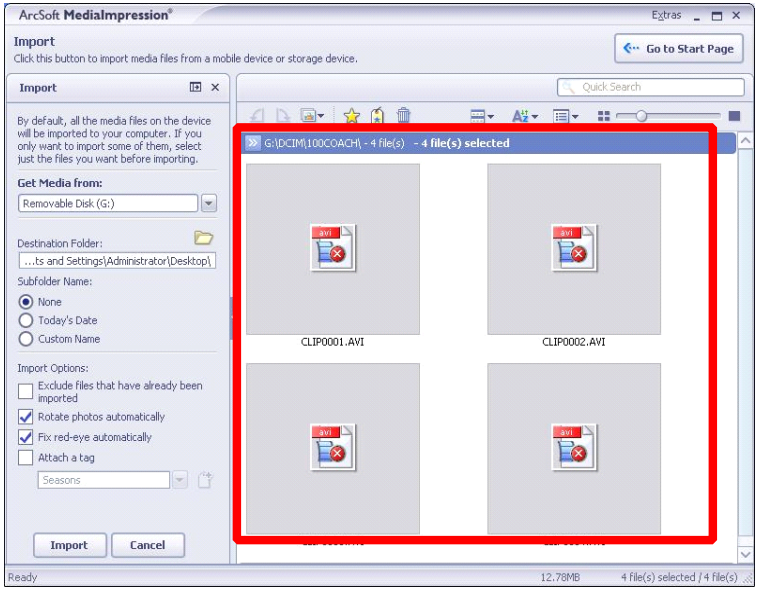

ArcSoft MediaImpression
Extras
Welcome to ArcSoft MediaImpression.
Choose a media type or action from the options below.
Pictures
Music
Video
Import
Welcome to ArcSoft MediaImpression. You can conveniently manage your media content and create projects here. Click a button on the left to get started.
Skip this page when you launch the program
Ready

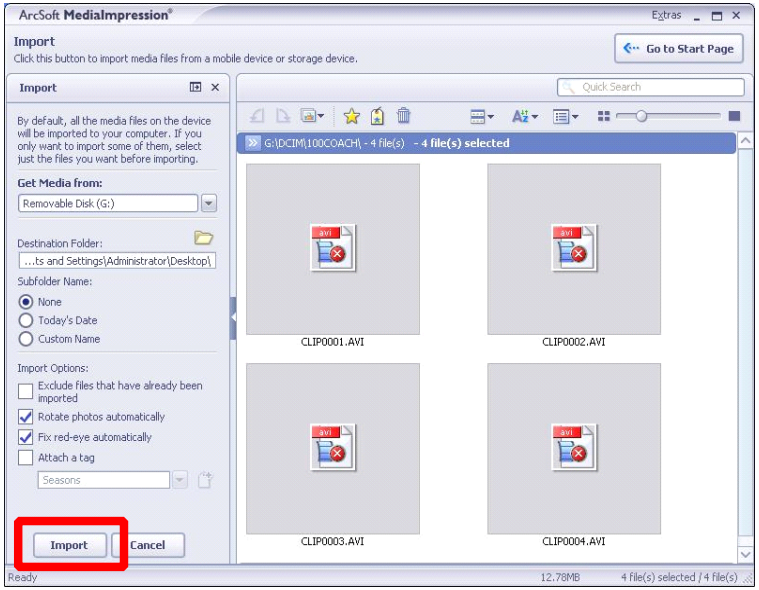
Choose the video camera storage and choose the output location.



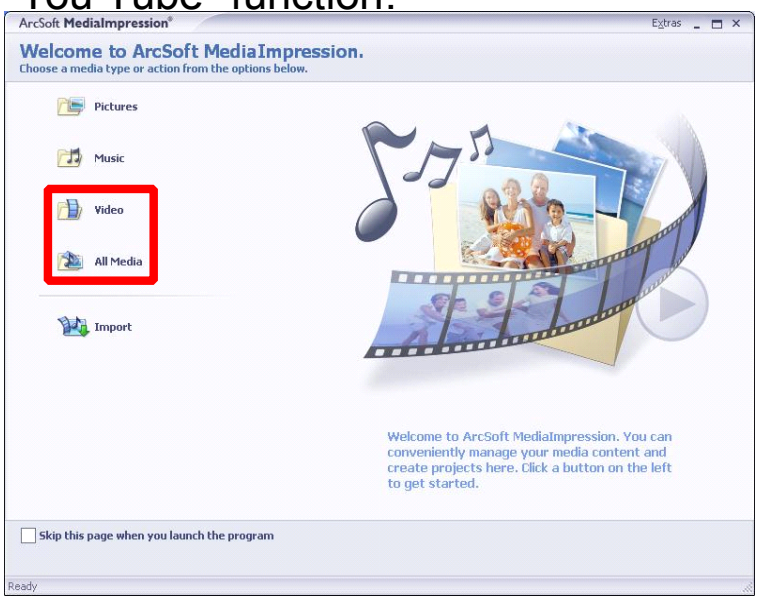


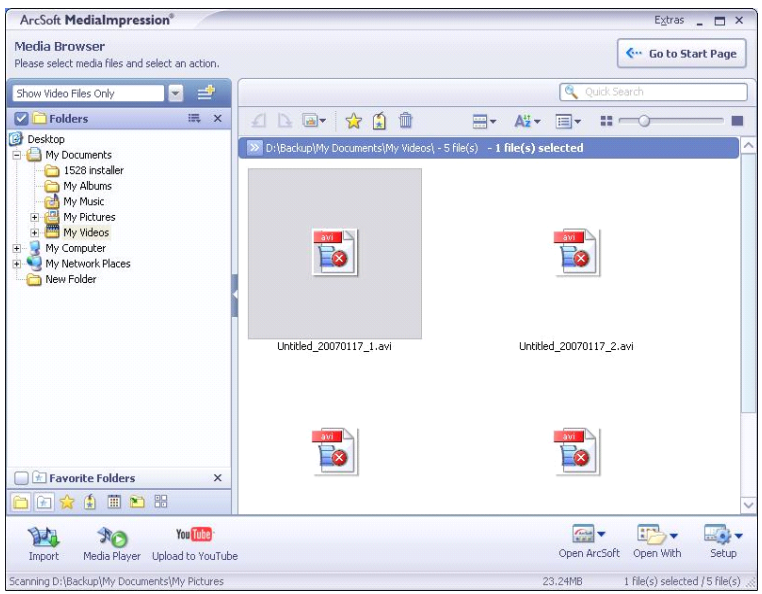
Choose require file and click the import, selected file will be stored in the output location.



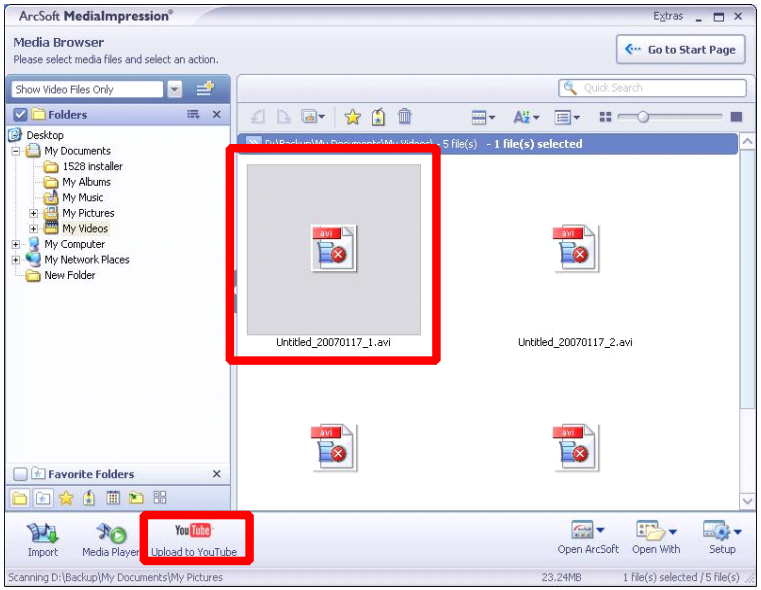


Click “Go to start page” to return the main screen, click the “Video” or “All media” to use the “You Tube” function.

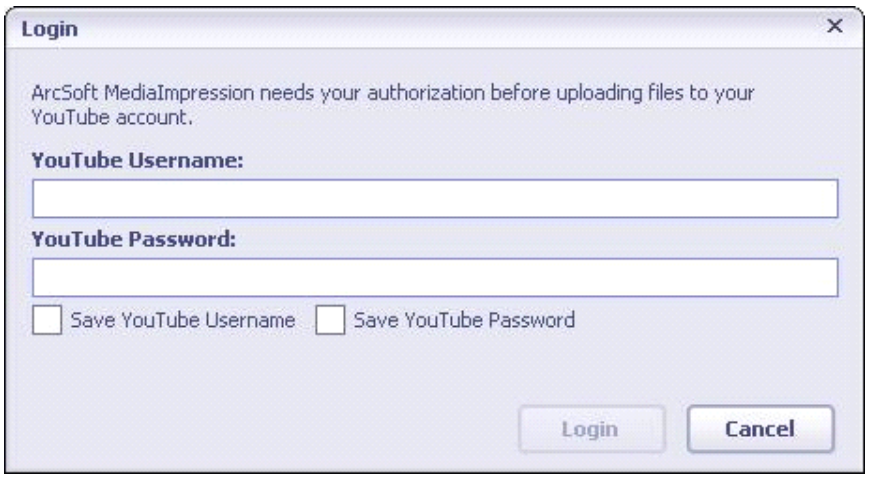

ArcSoft MediaImpression
Welcome to ArcSoft MediaImpression.
Choose a media type or action from the options below.
Pictures
Music
Video
All Media
Import
Welcome to ArcSoft MediaImpression. You can conveniently manage your media content and create projects here. Click a button on the left to get started.
Skip this page when you launch the program



Choose file and click the “upload to You Tube.



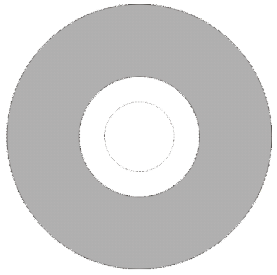
Enter you username and password to login the You Tube, execute upload.



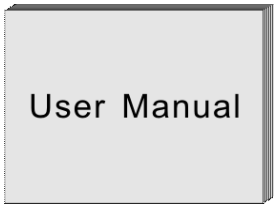
Product specifications:

Image sensor	1.3 Mega Pixels
Function mode	Record video, Record still photo, playback, mobile disk,
Lens	F2.8, f=3.1mm
Focus range	120cm~infinite
Digital focusing	4×
Shutter	Electronic
LCD display	2.0 inch TFT Display
Resolution	Video: HD(1280x720), VGA(640x480). Still photo: 5M(2592X1944), 3M(2048x1536), 1.3M(1280x960)
White balance	Automatic
Exposure	Automatic
File format	MOV
Video out	TV out, HDMI out
Internal Memory	32MB Nand Flash
Storage media	SD/MMC/SDHC card(max. 16GB)
USB port	USB2.0 port
Dimension (LxWxH)	110mm × 57mm × 19.5mm

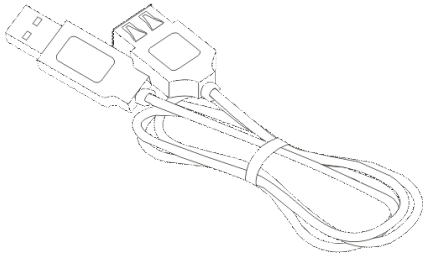
Standard accessories:



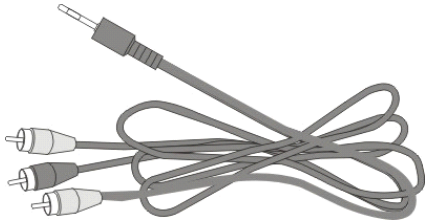
Installation CD



User manual



USB extension cable



TV cable